
Subject: need help on ROI subscript

Posted by [lsyrkin](#) on Fri, 17 Sep 1999 07:00:00 GMT

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Hi,

I need to calculate total counts inside a defined ROI in the multiframe image `im256=IntArr(256,256,30)`. I define ROI in the first frame `im256(*,*,0)`. `Q` is a subscript. Then I am trying to calculate total counts inside ROI for every image. It starts fine for the first frame and gives the error on the second cycle:

```
% Subscript range values must be >= 0, < size: IM256.
```

```
% Execution halted at: DISPLXE_DEFR    381
```

```
/export/home/rsi/idl_5.2/myfiles/DisplXe.pro
```

```
%          WIDGET_PROCESS_EVENTS
```

```
%          $MAIN$
```

What does it mean? Why subscript `Q` works fine for the first frame and stops on the second?

Below I placed the problem event handler:

```
*****
```

```
Pro DisplXe_DEFR, event
```

```
widget_Control, event.top, Get_UValue=info, /No_Copy
```

```
im=IntArr(64,64,30)
```

```
FOR k=0, 29 DO BEGIN
```

```
  im[*,*,k]=(*info.image)[*,*,4*k]+(*info.image)[*,*,4*k+1]+(*info.image)[*,*,4*k+2]+(*info.image)[*,*,4*k+3] ENDFOR
```

```
new_base=Widget_Base(Title=info.pname+' Define ROI ',
```

```
Group_leader=event.top)
```

```
draw20ID=Widget_Draw(new_base, Xsize=256, YSize=256, /BUTTON,
```

```
/MOTION);Create a draw widget
```

```
;that will return both button and motion events
```

```
Widget_Control, new_base, /Realize
```

```
Widget_Control, draw20ID, Get_Value=wid
```

```
wset,wid;
```

```
; rebin 20 sec slices to 256x256
```

```
im256=IntArr(256,256,30)
FOR j=0, 29 DO BEGIN
  im256=rebin (im[*,*],256,256)
ENDFOR
```

```
TVScl, im256(*,*,0)
```

```
; define ROI
Q=CW_DEFROI(draw20ID)
help, Q
```

```
; array for counts
cnts=LonArr(30)
```

```
; to find TOTAL counts inside ROI in every image !!!!!!! gives the
;error on the second pass (k=1)
FOR k=0, 29 DO BEGIN
  tmp=im256(*,*,k)
  cnts[k]= TOTAL(tmp(Q))
ENDFOR
```

```
PRINT, cnts
```

```
plot, cnts
```

```
widget_Control, event.top, Set_UValue=info, /No_Copy
END
```

```
.*****
,
```

Thanks in advance,

Leonid Syrkin

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